



## The effect of global warming on infectious diseases

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**Year:** 2010  
**Journal:** Osong Public Health and Research Perspectives. 1 (1): 9-Apr

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### Abstract:

Global warming has various effects on human health. The main indirect effects are on infectious diseases. Although the effects on infectious diseases will be detected worldwide, the degree and types of the effect are different, depending on the location of the respective countries and socioeconomical situations. Among infectious diseases, water- and foodborne infectious diseases and vector-borne infectious diseases are two main categories that are forecasted to be most affected. The effect on vector-borne infectious diseases such as malaria and dengue fever is mainly because of the expansion of the infested areas of vector mosquitoes and increase in the number and feeding activity of infected mosquitoes. There will be increase in the number of cases with water- and foodborne diarrhoeal diseases. Even with the strongest mitigation procedures, global warming cannot be avoided for decades. Therefore, implementation of adaptation measures to the effect of global warming is the most practical action we can take. It is generally accepted that the impacts of global warming on infectious diseases have not been apparent at this point yet in East Asia. However, these impacts will appear in one form or another if global warming continues to progress in future. Further research on the impacts of global warming on infectious diseases and on future prospects should be conducted. © 2010.

**Source:** <http://dx.doi.org/10.1016/j.phrp.2010.12.004>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Air Pollution, Ecosystem Changes, Extreme Weather Event, Precipitation, Temperature

**Air Pollution:** Allergens

**Extreme Weather Event:** Flooding

**Temperature:** Extreme Cold, Extreme Heat, Fluctuations

#### Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

#### Geographic Location:

# Climate Change and Human Health Literature Portal

resource focuses on specific location

Non-United States

**Non-United States:** Asia

**Asian Region/Country:** Other Asian Region

**Other Asian Region:** East Asia

**Health Impact:** ☒

specification of health effect or disease related to climate change exposure

Infectious Disease, Injury, Morbidity/Mortality, Respiratory Effect, Other Health Impact

**Infectious Disease:** Foodborne/Waterborne Disease, Vectorborne Disease

**Foodborne/Waterborne Disease:** Cholera, General Foodborne/Waterborne Disease, Other Diarrheal Disease

**Vectorborne Disease:** Mosquito-borne Disease, Tick-borne Disease

**Mosquito-borne Disease:** Chikungunya, Dengue, General Mosquito-borne Disease, Malaria, Ross River Virus, Viral Encephalitis, Viral Encephalitis

**Tick-borne Disease:** General Tick-borne Disease, Tick-borne Encephalitis

**Respiratory Effect:** Asthma

**Other Health Impact:** Heat stroke

**Medical Community Engagement:** ☒

resource focus on how the medical community discusses or acts to address health impacts of climate change

A focus of content

**Mitigation/Adaptation:** ☒

mitigation or adaptation strategy is a focus of resource

Adaptation

**Population of Concern:** A focus of content

**Other Vulnerable Population:** Pre-existing medical conditions

**Resource Type:** ☒

format or standard characteristic of resource

Review

**Timescale:** ☒

time period studied

Time Scale Unspecified